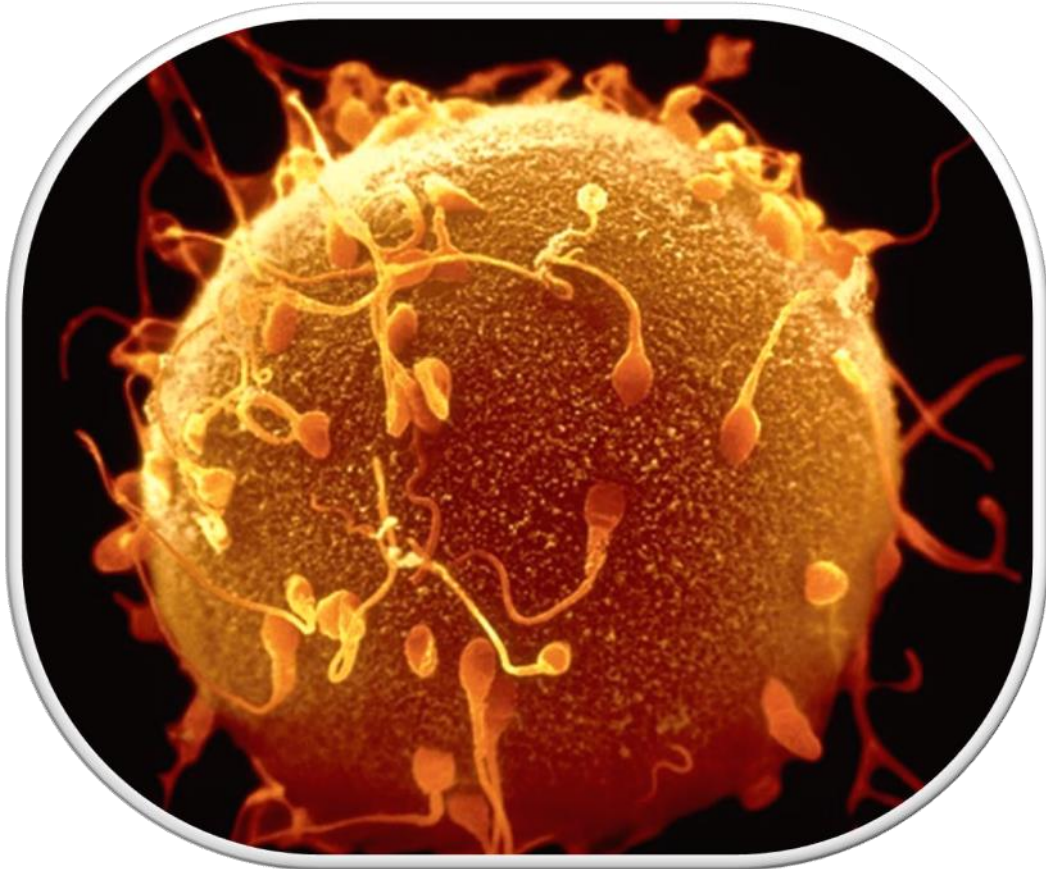


1.6 GAMETE FORMATION

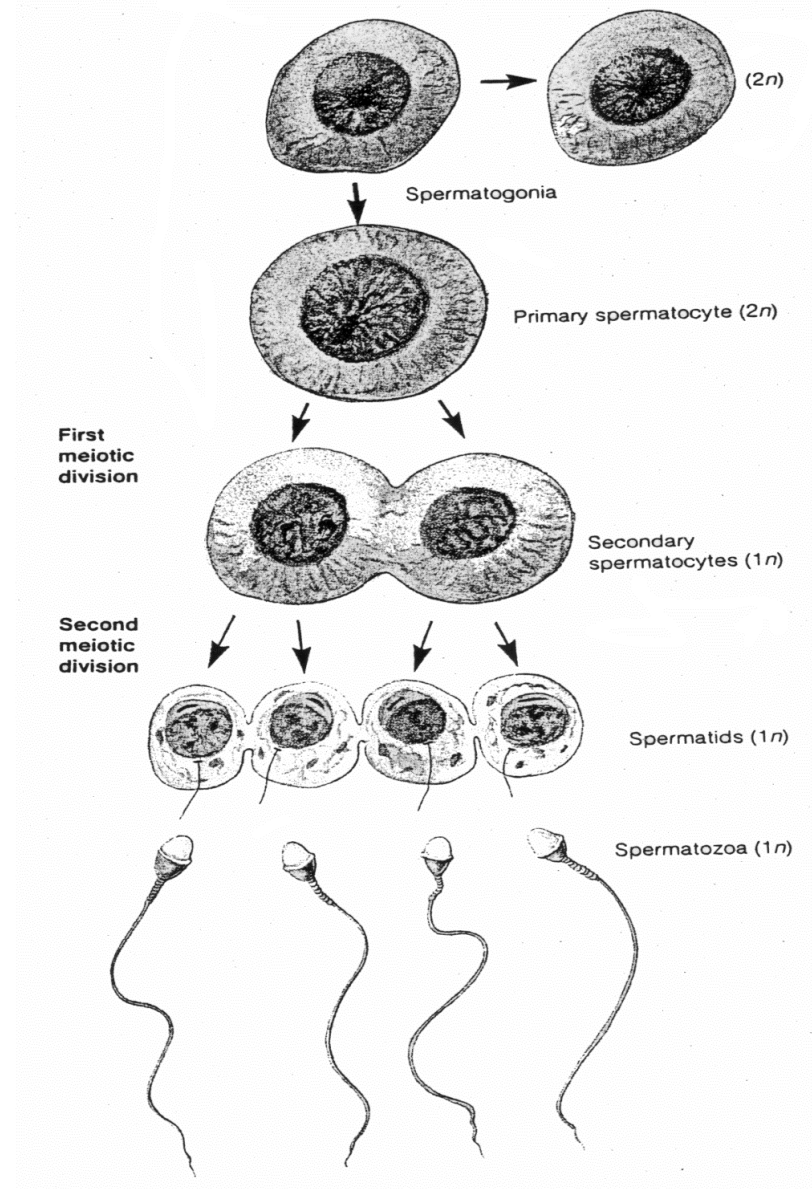
GAMETOGENESIS

**Gametogenesis:
the production
of gametes
(sex cells)
through the
process of
meiosis.**



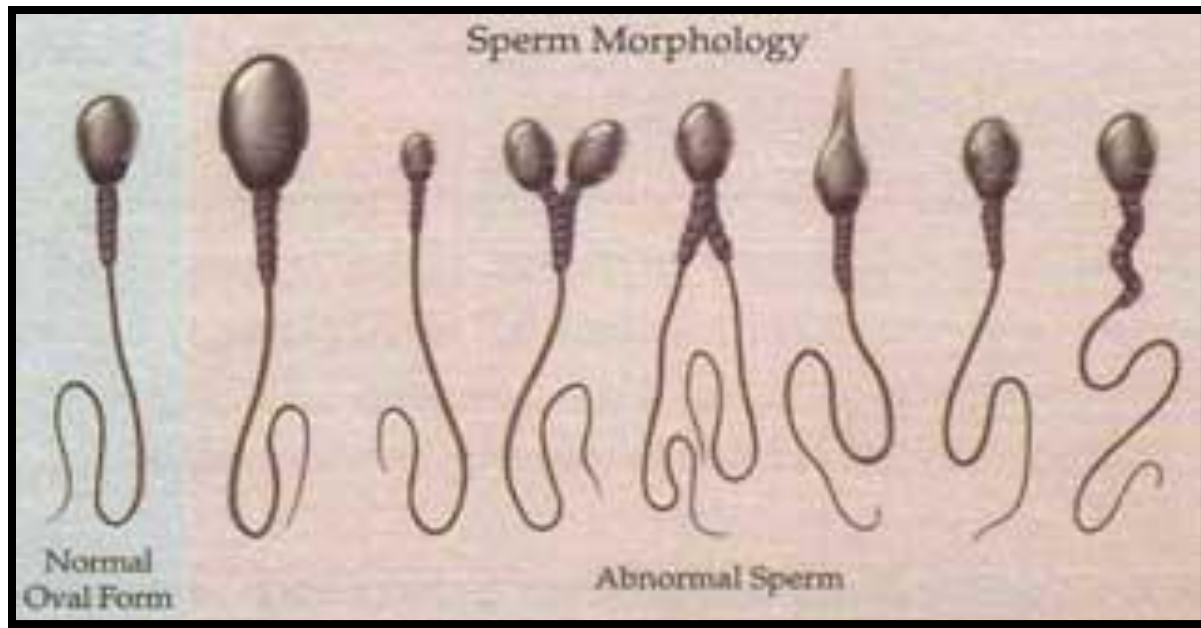
SPERMATOGENESIS

- Meiosis in males
- occurs in the testes
- Starts with a diploid cell called a spermatogonium
- produces four non-identical haploid sperm cells

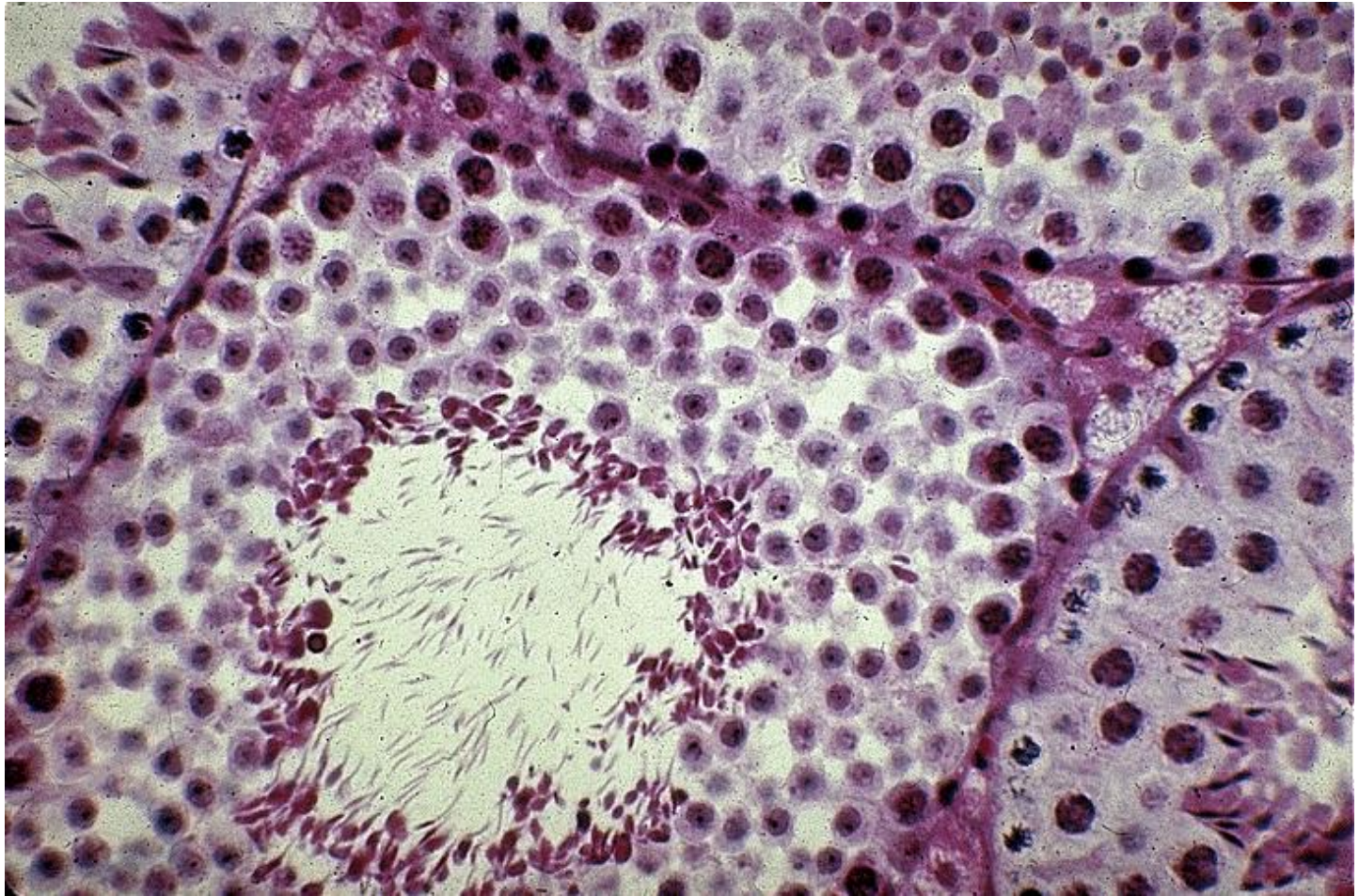


SPERMATOGENESIS

- Occurs all the time from puberty until death.
- It takes approximately 68-74 hours for a sperm to be created.
- Meiosis produces approximately 250 000 000 sperm every day in males!

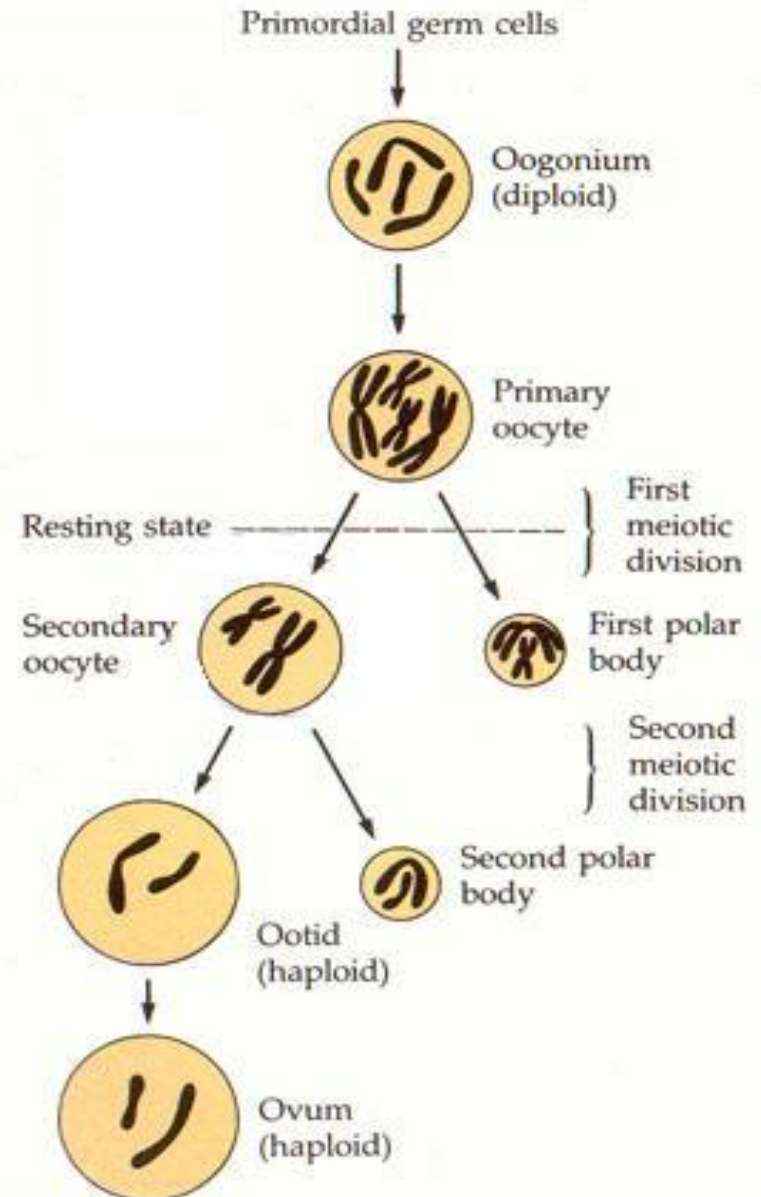


SPERMATOGENESIS



OÖGENESIS

- Meiosis in females
- Occurs in the ovaries and oviducts
- Starts with a diploid cell called an **oogonium**.
- Egg production starts before a female is born, but pauses in Meiosis I before the cells (primary oocyte) divide.
- The meiotic process resumes at puberty with ovulation, in one oocyte at a time, once a month.



OÖGENESIS

- After Telophase I and II only one of the cells receives the majority of the cytoplasm, resulting in one egg cell and three polar bodies.
- The purpose of the unequal division is to allow the egg cell to have sufficient nutrients to support a zygote immediately after fertilization.

